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PPLICATION NO.	N NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/796,277 03/10/2004		03/10/2004	Kazunari Aoyama	392.1882	9384	
21171	7590	03/30/2005	•	EXAM	INER	
STAAS &	HALSEY	/ LLP	RO, BENTSU			
SUITE 700 1201 NEW	YORK AV	VENUE, N.W.		ART UNIT	PAPER NUMBER	
WASHING			2837			
				DATE MAILED: 03/30/2009	DATE MAILED: 03/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		Application	n No.	Applicant(s)			
Office Assistant Communication		10/796,27	7	AOYAMA ET AL.			
	Office Action Summary	Examiner		Art Unit			
		Bentsu Ro		2837			
Period for	The MAILING DATE of this communication Reply	on appears on the	cover sheet with the co	orrespondence address			
THE MA - Extension after SD - If the pe - If NO pe - Failure to	RTENED STATUTORY PERIOD FOR I ALLING DATE OF THIS COMMUNICAT Ons of time may be available under the provisions of 37 of (6) MONTHS from the mailing date of this communicate riod for reply specified above is less than thirty (30) days stricted for reply is specified above, the maximum statutory to reply within the set or extended period for reply will, by received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no evention. s, a reply within the stature period will apply and will y statute, cause the apply	nt, however, may a reply be tim tory minimum of thirty (30) days I expire SIX (6) MONTHS from to cation to become ABANDONED	ely filed will be considered timely. the mailing date of this communication. 0 (35 U.S.C. § 133).			
Status							
1)□ R	Responsive to communication(s) filed on						
2a)□ T	his action is <b>FINAL</b> . 2b)	This action is no	on-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition	n of Claims						
4a 5)⊠ C 6)⊠ C 7)⊠ C	4)  Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) 4 and 5 is/are allowed.  6)  Claim(s) 1 and 2 is/are rejected.  7)  Claim(s) 3 and 6 is/are objected to.						
Application	n Papers			·			
9)□ Tr	ne specification is objected to by the Ex	aminer.					
10)[] Th	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Α	pplicant may not request that any objection	to the drawing(s) b	e held in abeyance. See	37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority un	der 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s  1) Notice of the control of the contr	) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-9	, (AB)	4) Interview Summary Paper No(s)/Mail Da				
3) 🔯 Informa	or Dransperson's Patent Drawing Review (P10-9 tion Disclosure Statement(s) (PTO-1449 or PTO/ lo(s)/Mail Date <u>8/3/04</u> .	atent Application (PTO-152)					

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## FIRST OFFICE ACTION

1. Drawing correction is required as follows:

Applicant should label Figs. 1 and 2 as "prior art".

2. The following is a quotation of the appropriate paragraphs of 35

U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Loerch US Patent No. 4,632,612.

Loerch teaches the same subject matter as claimed, see the following comparison chart.

Claim 1. A numerical controller having a
numerical control section that outputs
movement commands

and a motor control section that controls motors according to the movement commands from the numerical control section,

Fig. 5 shows a numerical control circuit having a numerical control section, such as the data processing unit 46;

Fig. 5 shows a spindle drive motor 12; it is noted that the reference numeral 12 symbolically show a spindle drive motor 12, the motor driver circuit should also be inside the box 12 for at least the following reasons:

- (1) the data processing unit cannot drive the motor because the processing unit simply cannot provide high drive current and high drive voltage to the motor;
- (2) Fig. 5 show a high level control circuit, the high level control circuit usually shows symbolic boxes, a high level control circuit does not show a physical embodiment of

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	the circuit; such as a power source, a motor control switch, motor driver circuit (power transistors, capacitors, resistors, inductors, and circuit connection, etc;		
an interface unit	any connection legs, screws, soldered points, connectors, etc are interface unit (not shown) for connecting one control element to the other control element;		
for receiving signals from sensors and sending the received signals to the motor control section; and	Fig. 5 shows a transducer 39; the transducer signal is sent to the spindle drive motor 12 via a register 45 and a data processing unit 46;		
a data table storing a correspondence between the sensors and the motors;	Fig. 5 shows a data storage table 44; table 44 stores a relationship between the angular position of motor shaft with respect to the angular position of a spindle head 11, see Fig. 1;		
wherein the motor control section receives the signals from the sensors through the interface and controls the motors corresponding to the correspondence between the sensors and the motors set in the data table.	see column 7, lines 3-29 for the operation; Examiner's notes: Loerch shows a single motor and a single transducer, however, the same scheme can be used with a plurality of motors in a machine tools.		
2. The numerical controller of claim 1, wherein the correspondence between the sensors and the motors is one-to-one, one-to-n, or n-to-one (n being an integer greater than or equal to two).	Claim 2 covers all possible combinations of correspondences, therefore, the subject matter of claim 2 is met by Loerch.		

4. Claims 3 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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5. Claims 4 and 5 are allowable.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

7. Any inquiry concerning this communication should be directed to Bentsu Ro at telephone number 571 272-2072.

Bentsu Ro Bentsu Ro Senior Examiner Art Unit 2837